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Pengaruh Ekstrak Daun Jambu Biji (Psidium guajava, Linn) terhadap Mortalitas Ascaris suum, Goeze in vitro

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Abstract


Background: Guava leaves contain tannins and saponins that have been known to have anthelmintic effect. This study aimed to determine the effect of guava leaf extract toward mortality of *Ascaris suum*, Goeze in vitro

Methods: The study was a laboratory experimental research using the post-test only controlled group design. Subjects were adult *Ascaris suum*, Goeze. The sampling technique used was purposive sampling. Subjects were divided into 7 groups, each group consisting of 5 worms, replication performed 4 times. Saline solution was used in negative control group, pirantel pamoate 5 mg/ml was used in positive control group, while the treatment group used guava leaf extract concentration of 20%, 40%, 60%, 80%, and 100%. Worms were immersed in the test solution at 25 mL and was incubated at 37. Observations were made every 1 hour for 7 hours and counted the number of dead worms for 7 hours. Data were analyzed with Kruskal-Wallis test, followed by Mann Whitney test and probit analysis.

Results: Total number of dead worms after 7 hours of observation in the negative control group was 0, guava leaf extract concentration of 20%, 40%, 60%, 80%, and 100% respectively by 4, 7, 12, 20, and 20, and in the positive control group was 20. Kruskal Wallis test results showed a significant difference, while Mann Whitney test showed some significant and insignificant differences among those groups ($p < 0.05$ and $p > 0.05$). Probit analysis showed LC50 and LC90 respectively at concentration 54.320% and 74.516%.

Conclusions: Based on this study, it can be concluded that the guava leaf extract affects mortality of *Ascaris suum*, Goeze in vitro, the increased concentration of extract increases the number of deaths of worms.

Keywords: Guava leaves extract, *Ascaris suum*

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